Title (en)

INFORMATION PROCESSING DEVICE, SPECKLE IMAGING SYSTEM, AND INFORMATION PROCESSING METHOD

Title (de)

INFORMATIONSVERARBEITUNGSVORRICHTUNG, SPECKLE-ABBILDUNGSSYSTEM UND INFORMATIONSVERARBEITUNGSVERFAHREN

Title (fr)

DISPOSITIF DE TRAITEMENT D'INFORMATIONS, SYSTÈME D'IMAGERIE DE TAVELURES ET PROCÉDÉ DE TRAITEMENT D'INFORMATIONS

Publication

EP 3385723 A4 20181205 (EN)

Application

EP 16870320 A 20161019

Priority

- JP 2015238047 A 20151204
- JP 2016080906 W 20161019

Abstract (en)

[origin: EP3385723A1] Provided is a technology capable of simply and efficiently obtaining a contrast of a speckle pattern as a prerequisite for measuring a fluid velocity. The present technology provides an information processing apparatus including: a luminance integrator that integrates a luminance of a plurality of speckle images obtained by an imaging element by a plurality of times of imaging of scattered light obtained from an imaging target to which coherent light is emitted; and a contrast calculation unit that calculates a contrast of a speckle pattern on the basis of a speckle integrated image integrated by the luminance integrator.

IPC 8 full level

G01P 5/22 (2006.01); **A61B 5/026** (2006.01); **A61B 5/1455** (2006.01); **G01F 1/704** (2006.01); **G01P 5/26** (2006.01)

CPC (source: EP US)

A61B 5/026 (2013.01 - US); **A61B 5/0261** (2013.01 - EP US); **A61B 5/1455** (2013.01 - US); **A61B 5/7445** (2013.01 - EP US); **G01F 1/704** (2013.01 - US); **G01F 1/7086** (2013.01 - EP); **G01F 1/712** (2013.01 - EP); **G01P 5/22** (2013.01 - US); **G01P 5/26** (2013.01 - EP US); G06T 7/246 (2016.12 - US); G06T 2207/30104 (2013.01 - US)

Citation (search report)

- [X] US 2012095354 A1 20120419 - DUNN ANDREW [US], et al
- [XAI] LI P ET AL: "IMAGINING CEREBRAL BLOOD FLOW THROUGH THE INTACT RAT SKULL WITH TEMPORAL LASER SPECKLE IMAGING", OPTICS LETTERS, OPTICAL SOCIETY OF AMERICA, US, vol. 31, no. 12, 15 June 2006 (2006-06-15), pages 1824 - 1826, XP001243249, ISSN: 0146-9592
- [X] ABHISHEK REGE ET AL: "Multiexposure laser speckle contrast imaging of the angiogenic microenvironment", JOURNAL OF BIOMEDICAL OPTICS, 1 May 2011 (2011-05-01), XP055023999, Retrieved from the Internet <URL:http://scitation.aip.org/getpdf/servlet/GetPDFServlet?filetype=pdf&id=JBOPFO000016000005056006000001&idtype=cvips&doi=10.1117/1.3582334&prog=normal> [retrieved on 20120405], DOI: 10.1117/1.3582334
- See references of WO 2017094380A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3385723 A1 20181010; **EP 3385723 A4 20181205**; **EP 3385723 B1 20201202**; CN 108291925 A 20180717; CN 108291925 B 20201009; JP 6927046 B2 20210825; JP WO2017094380 A1 20180920; US 2018344176 A1 20181206; WO 2017094380 A1 20170608

DOCDB simple family (application)

EP 16870320 A 20161019; CN 201680069354 A 20161019; JP 2016080906 W 20161019; JP 2017553697 A 20161019; US 201615778758 A 20161019